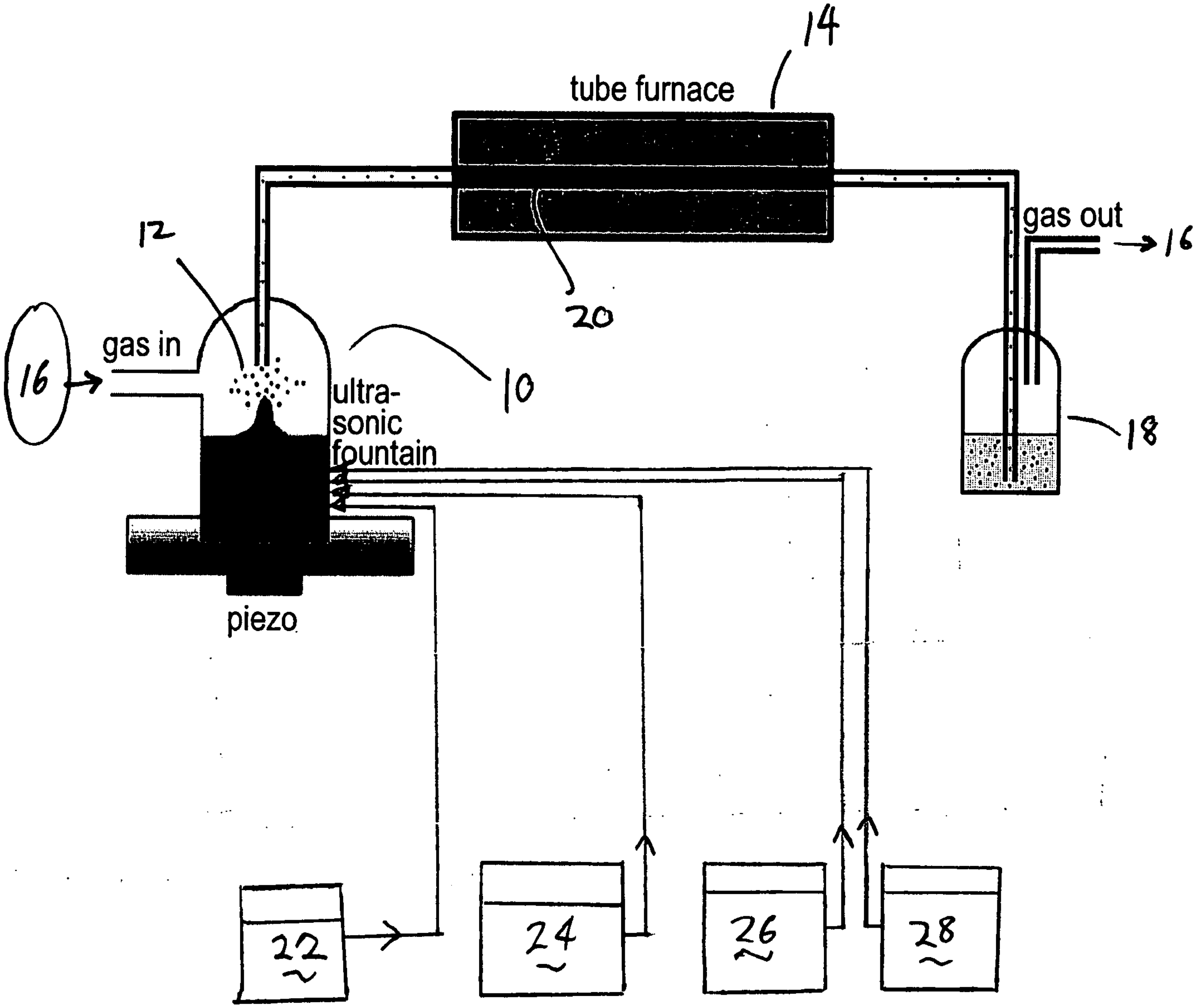

Fig. 1. Experimental apparatus for chemical aerosol flow synthesis. Solutions of high boiling liquids are atomized by ultrasonic nebulizer at 1.7 MHz. The droplets are carried through the tube furnace by an Ar flow. The resulting quantum dot particles are trapped in a solvent-filled bubbler.

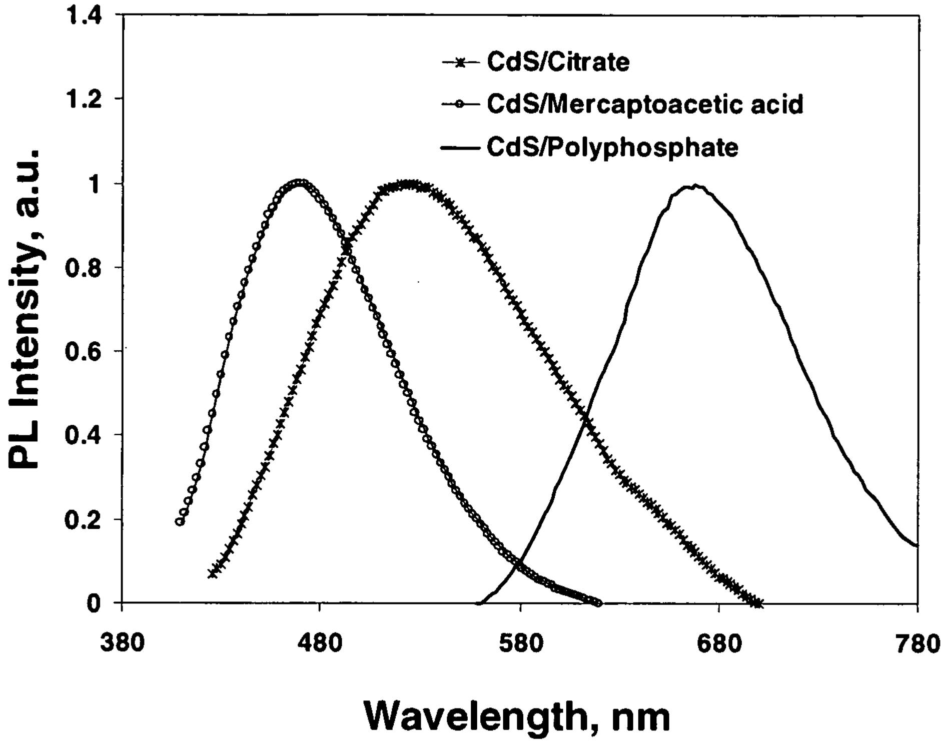

Figure 2. Fluorescence of CdS colloids obtained by Ultrasonic Spray Pyrolysis.

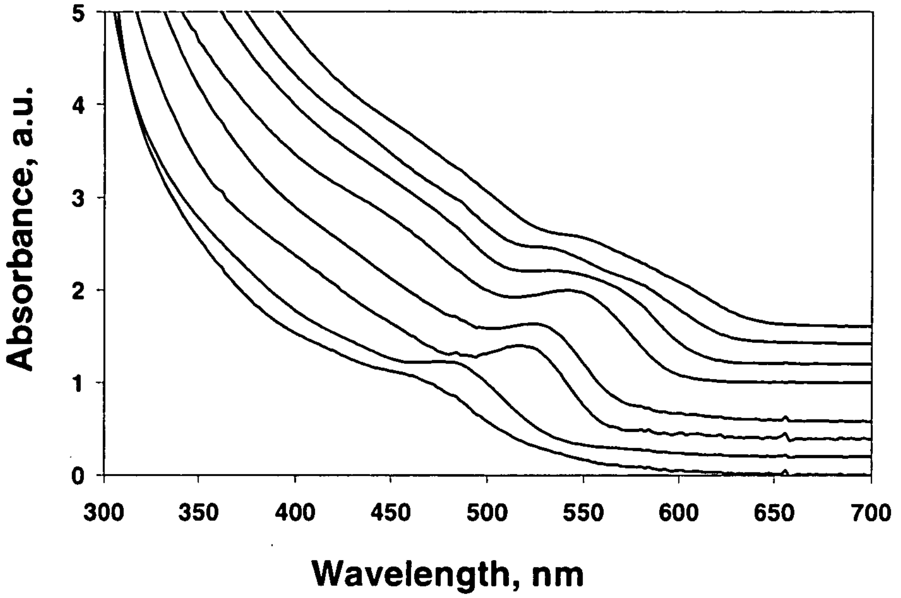

Figure 3A

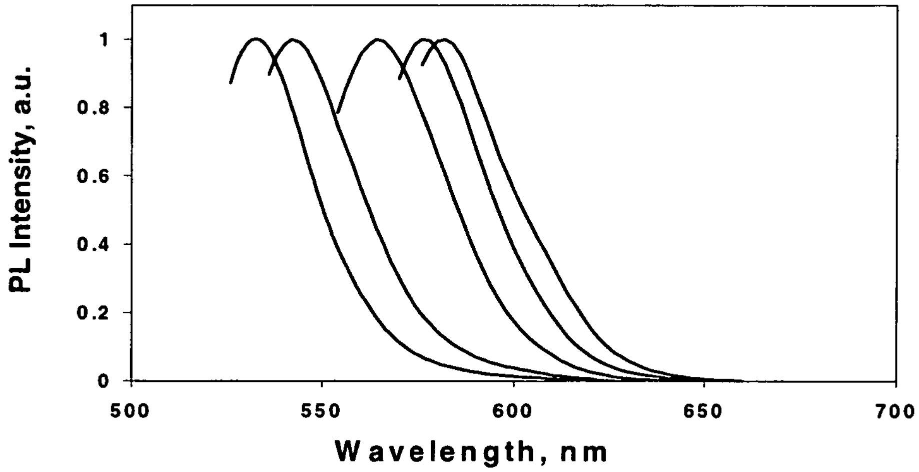

Figure 3B

Figures 3A and 3B. Absorbance and fluorescence emission spectra of CdSe/SA nanoparticles obtained by USP at temperatures from 200 to 360 °C. From left to right.

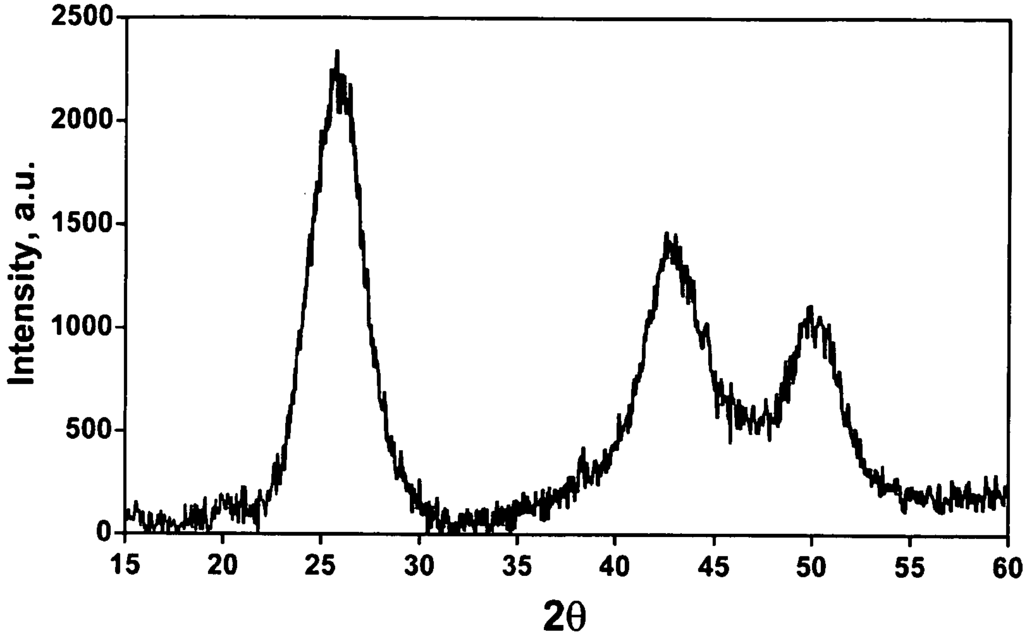

Figure 4A. XRD of CdSe/SA nanoparticles obtained by USP at 340°C.

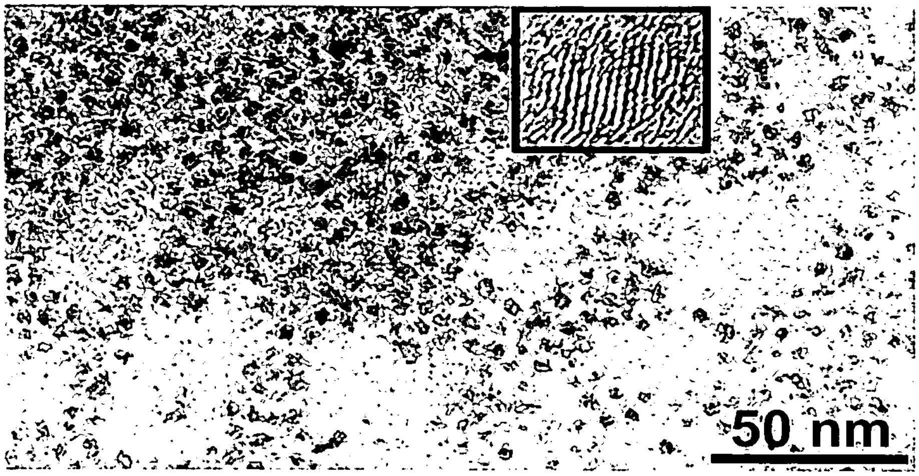

Figure 4B. TEM of CdSe/SA nanoparticles obtained by USP at 340°C.

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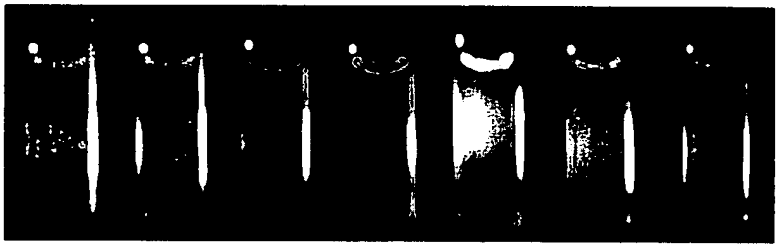

Figure 4C. Fluorescence of CdSe nanoparticles obtained by USP at various temperatures from 180°C to 320°C, left to right; colors of fluorescence are deep blue, light blue, green, yellow-green, yellow, orange, and red, respectively from left to right.

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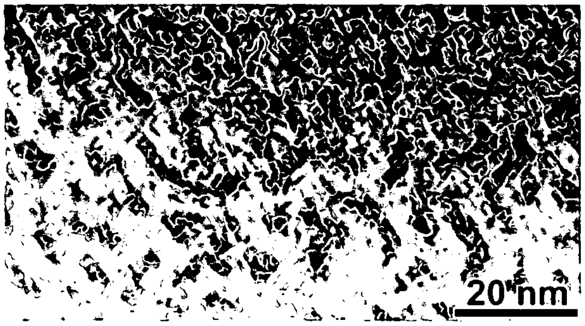

Figure 5. CdSe nanorods obtained from UPS of a mixture of cadmium acetate, TOPSe, oleic acid and dodecylamine at 240°C.

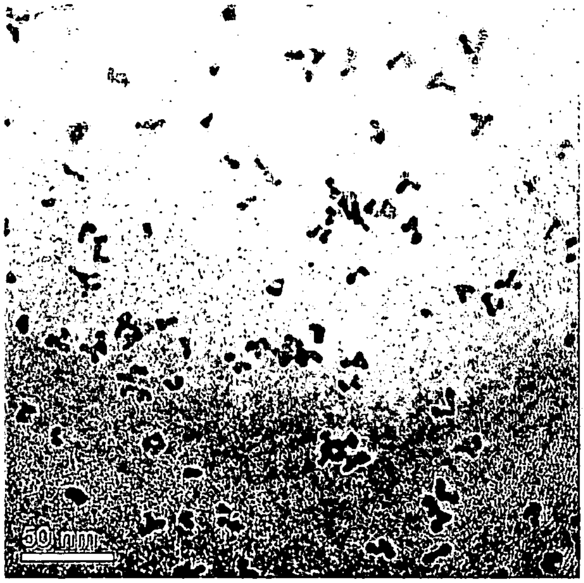

Figure 6. CdTe nanoparticles of various morphologies obtained from the mixture of CdO, oleic acid TOPTe and isodurene at 280 °C.

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